

DCT  
OC  
540

**CRF Errors Edited by the STIC Systems  
Branch**

Serial Number: 10/031,722 A

CRF Edit Date: 9-7-03  
Edited by: FG

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

ENTERED

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

X Deleted: X invalid beginning/end-of-file text ; 7 page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_ Other:



PCT

## RAW SEQUENCE LISTING

DATE: 09/17/2003

PATENT APPLICATION: US/10/031,722A

TIME: 14:58:30

Input Set : N:\paola\10031722A.raw

Output Set: N:\CRF4\09172003\J031722A.raw

C--> 1 <110> APPLICANT: Medarex, Inc.  
 2 <120> TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO HER2/NEU  
 3 <130> FILE REFERENCE: MXI-160PC  
 4 <140> CURRENT APPLICATION NUMBER: US/10/031,722A  
 5 <141> CURRENT FILING DATE: 2000-07-25  
 6 <150> PRIOR APPLICATION NUMBER: USSN 60/146,313  
 7 <151> PRIOR FILING DATE: 1999-07-29  
 8 <150> PRIOR APPLICATION NUMBER: USSN 60/188,539  
 9 <151> PRIOR FILING DATE: 1999-03-10  
 10 <160> NUMBER OF SEQ ID NOS: 13  
 11 <170> SOFTWARE: PatentIn Ver. 2.0  
 13 <210> SEQ ID NO: 1  
 14 <211> LENGTH: 372  
 15 <212> TYPE: DNA  
 16 <213> ORGANISM: Homo sapiens  
 17 <220> FEATURE:  
 18 <221> NAME/KEY: CDS  
 19 <222> LOCATION: (1)..(372)  
 20 <400> SEQUENCE: 1

21	gag gtg cag ctg ttg gag tct ggg gga ggc ttg gta cag cct ggg ggg	48
22	Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly	
23	1 5 10 15	
24	tcc ctg aga ctc tcc tgt gca gcc tct gga ttc acc ttt agc agc tat	96
25	Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr	
26	20 25 30	
27	gcc atg acc tgg gtc cgc cag gct cca ggg aag ggg ctg gag tgg gtc	144
28	Ala Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val	
29	35 40 45	
30	tca gct atc agt ggt agt ggt tat agc aca tac tac gca gac tcc gag	192
31	Ser Ala Ile Ser Gly Ser Gly Tyr Ser Thr Tyr Tyr Ala Asp Ser Glu	
32	50 55 60	
33	aag ggc cgg ttc acc atc tcc aga gac aat tcc aag aac acg ctg tat	240
34	Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr	
35	65 70 75 80	
36	ctg caa atg aac agc ctg aga gcc gag gac acg gcc gta tat tac tgt	288
37	Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys	
38	85 90 95	
39	gcg aaa ggg ttt cag tat ggt tcg ggg agt tat tat acc cac ttt gac	336
40	Ala Lys Gly Phe Gln Tyr Gly Ser Gly Ser Tyr Tyr Thr His Phe Asp	
41	100 105 110	
42	tac tgg ggc cag gga acc ctg gtc acc gtc tcc tca	372
43	Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser	
44	115 120	

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46 <210> SEQ ID NO: 2
47 <211> LENGTH: 124
48 <212> TYPE: PRT
49 <213> ORGANISM: Homo sapiens
50 <400> SEQUENCE: 2
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52     1             5             10             15
53   Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
54             20             25             30
55   Ala Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
56             35             40             45
57   Ser Ala Ile Ser Gly Ser Gly Tyr Ser Thr Tyr Tyr Ala Asp Ser Glu
58             50             55             60
59   Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
60             65             70             75             80
61   Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
62             85             90             95
63   Ala Lys Gly Phe Gln Tyr Gly Ser Gly Ser Tyr Tyr Thr His Phe Asp
64             100            105            110
65   Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
66             115            120
68 <210> SEQ ID NO: 3
69 <211> LENGTH: 321
70 <212> TYPE: DNA
71 <213> ORGANISM: Homo sapiens
72 <220> FEATURE:
73 <221> NAME/KEY: CDS
74 <222> LOCATION: (1)..(321)
75 <400> SEQUENCE: 3
76   gac atc cag atg acc cag tct cca tcc tca ctg tct gca tct gta gga      48
77   Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
78     1             5             10             15
79   gac aga gtc acc atc act tgt cgg gcg agt cag ggt att agc agc tgg      96
80   Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
81             20             25             30
82   tta gcc tgg tat cag cag aaa cca gag aaa gcc cct aag tcc ctg atc      144
83   Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
84             35             40             45
85   tat gct gca tcc agt ttg caa agt ggg gtc cca tca agg ttc agc ggc      192
86   Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
87             50             55             60
88   agt gga tct ggg aca gat ttc act ctc acc atc agc agc ctg cag cct      240
89   Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
90             65             70             75             80
91   gaa gat ttt gca act tat tac tgc caa cag tat aat agt tac ccg tac      288
92   Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Tyr
93             85             90             95
94   act ttt ggc cag ggg acc aag ctg gag atc aaa                        321
95   Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys

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Output Set: N:\CRF4\09172003\J031722A.raw

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99 <211> LENGTH: 107
100 <212> TYPE: PRT
101 <213> ORGANISM: Homo sapiens
102 <400> SEQUENCE: 4
103   Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
104       1              5              10              15
105   Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
106           20              25              30
107   Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
108       35              40              45
109   Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
110       50              55              60
111   Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
112       65              70              75              80
113   Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Tyr
114           85              90              95
115   Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
116       100          105
118 <210> SEQ ID NO: 5
119 <211> LENGTH: 366
120 <212> TYPE: DNA
121 <213> ORGANISM: Homo sapiens
122 <220> FEATURE:
123 <221> NAME/KEY: CDS
124 <222> LOCATION: (1)..(366)
125 <400> SEQUENCE: 5
126   cag gtg cag ctg gtg gag tct ggg gga ggc gtg gtc cag cct ggg agg 48
127   Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
128       1              5              10              15
129   tcc ctg aga ctc tcc tgt gca gcg tct gga ttc acc ttc agt agc tat 96
130   Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
131           20              25              30
132   gac ata cac tgg gtc cgc cag gct cca ggc aag ggg ctg gag tgg gtg 144
133   Asp Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
134       35              40              45
135   gca gta ata tgg tat gat ggc agt aat aaa tac cat gca gac tcc gtg 192
136   Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr His Ala Asp Ser Val
137       50              55              60
138   aag ggc cga ttc acc atc tcc aga gac aat tcc aag aac acg ctg tat 240
139   Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
140       65              70              75              80
141   ctg caa atg aac agt ctg aga gcc gag gac acg gct gtg tat tac tgt 288
142   Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
143           85              90              95
144   gcg aga aac tat ggt ttg ggg agt tat tat aac tac ttt gac ttc tgg 336
145   Ala Arg Asn Tyr Gly Leu Gly Ser Tyr Tyr Asn Tyr Phe Asp Phe Trp
146       100          105          110

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147      ggc cag gga acc ctg gtc acc gtc tcc tca      366
148      Gly Gln Gly Thr Leu Val Thr Val Ser Ser
149      115      120
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152 <211> LENGTH: 122
153 <212> TYPE: PRT
154 <213> ORGANISM: Homo sapiens
155 <400> SEQUENCE: 6
156      Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
157      1      5      10      15
158      Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
159      20      25      30
160      Asp Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
161      35      40      45
162      Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr His Ala Asp Ser Val
163      50      55      60
164      Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
165      65      70      75      80
166      Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
167      85      90      95
168      Ala Arg Asn Tyr Gly Leu Gly Ser Tyr Tyr Asn Tyr Phe Asp Phe Trp
169      100      105      110
170      Gly Gln Gly Thr Leu Val Thr Val Ser Ser
171      115      120
173 <210> SEQ ID NO: 7
174 <211> LENGTH: 321
175 <212> TYPE: DNA
176 <213> ORGANISM: Homo sapiens
177 <220> FEATURE:
178 <221> NAME/KEY: CDS
179 <222> LOCATION: (1)..(321)
180 <400> SEQUENCE: 7
181      gac atc cag atg acc cag tct cca tcc tca ctg tct gca tct gta gga      48
182      Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
183      1      5      10      15
184      gac aga gtc acc atc act tgt cgg gcg agt cat ggt att agc agc tgg      96
185      Asp Arg Val Thr Ile Thr Cys Arg Ala Ser His Gly Ile Ser Ser Trp
186      20      25      30
187      tta gcc tgg tat cag cag aaa cca gag aaa gcc cct aag tcc ctg atc      144
188      Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
189      35      40      45
190      tat gct gca tcc agt ttg caa agt ggg gtc cca tca agg ttc agc ggc      192
191      Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
192      50      55      60
193      agt gga tct ggg aca gat ttc act ctc acc atc agc agc ctg cag cct      240
194      Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
195      65      70      75      80
196      gaa gat ttt gca act tat tac tgc caa cag tat aat agt tac ccg tac      288
197      Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Tyr

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## RAW SEQUENCE LISTING

DATE: 09/17/2003

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TIME: 14:58:30

Input Set : N:\paola\10031722A.raw

Output Set: N:\CRF4\09172003\J031722A.raw

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198          85          90          95          321
199      act ttt ggc cag ggg acc aag ctg gag atc aaa
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201          100          105
203 <210> SEQ ID NO: 8
204 <211> LENGTH: 107
205 <212> TYPE: PRT
206 <213> ORGANISM: Homo sapiens
207 <400> SEQUENCE: 8
208      Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
209          1          5          10          15
210      Asp Arg Val Thr Ile Thr Cys Arg Ala Ser His Gly Ile Ser Ser Trp
211          20          25          30
212      Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
213          35          40          45
214      Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
215          50          55          60
216      Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
217          65          70          75          80
218      Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Tyr
219          85          90          95
220      Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
221          100          105
223 <210> SEQ ID NO: 9
224 <211> LENGTH: 366
225 <212> TYPE: DNA
226 <213> ORGANISM: Homo sapiens
227 <220> FEATURE:
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229 <222> LOCATION: (1)..(366)
230 <400> SEQUENCE: 9
231      cag gtg cag ctg gtg gag tct ggg gga ggc gtg gtc cag cct ggg agg 48
232      Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
233          1          5          10          15
234      tcc ctg aga ctc tcc tgt gca gcg tct gga ttc acc ttc agt agc tat 96
235      Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
236          20          25          30
237      gtc atg cac tgg gtc cgc cag gct cca ggc aag ggg ctg gag tgg gtg 144
238      Val Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
239          35          40          45
240      gca gtt ata tgg tat gat gga agt aat aaa tac tat gca gac tcc gtg 192
241      Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
242          50          55          60
243      aag ggc cga ttc acc atc tcc aga gac aat tcc aag aac acg ctg tat 240
244      Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
245          65          70          75          80
246      ctg caa atg aac agc ctg aga gcc gag gac acg gct gtg tat tac tgt 288
247      Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
248          85          90          95

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/031,722A

DATE: 09/17/2003

TIME: 14:58:31

Input Set : N:\paola\10031722A.raw

Output Set: N:\CRF4\09172003\J031722A.raw

L:4 M:270 C: Current Application Number differs, Wrong Format